1 ABSTRACT 2 3 'Improvements in or relating to vibration control' 4 (Figure 1) 5 6 A variable damper with a low off-state, having an outer 7 member including a magnetic sleeve and an inner shaft, 8 between which is supported an electromagnet. 9 Magnetorheological fluid is inserted between the members 10 and a flow path is established over a control region 11 between the electromagnet and the sleeve. Various 12 embodiments of the damper are presented with the 13 electromagnet supported on the outer member and on the 14 shaft. A vibration control system incorporating a 15 magnetorheological fluid variable damper is presented 16 wherein the system provides a relative figure of merit for vibration control of at least 0.83. Devices 17 18 incorporating the damper in a vibration control system 19 are presented for snow boards, clubs, drills, engines, 20 pumps, generators and vehicles.

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